WEST

| Help | Logout | Interrupt |

| Main Menu | Search Form | Posting Counts | Show S Numbers | Edit S Numbers | Preferences |

Search Results -

Terms	Documents
L7 and PCR	59

Database:
- US Patents Full-Text Database
- US Pre-Grant Publication Full-Text Database
- JPO Abstracts Database
- EPO Abstracts Database
- Derwent World Patents Index
- IBM Technical Disclosure Bulletins

Refine Search: L7 and PCR | Clear |

Search History

Today's Date: 10/23/2001

DB Name	Query	Hit Count	Set Name
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	L7 and PCR	59	L9
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	L7 and thermo?	0	L8
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	L1 and tyrosine and substitut?	66	L7
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	L1 and tyrosine	326	L6
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	L1 and YxGG/A?	0	L5
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	L1 and Y-GG/A?	0	L4
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	L1 and Yx-gga?	0	L3
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	L1 and GG/A?	0	L2
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	DNA adj polymerase?	1837	L1

PALM INTRANET

Inventor Name Search

Enter the **first few letters** of the Inventor's Last Name.
Additionally, enter the **first few letters** of the Inventor's First name.

Last Name	First Name	
Sobek	Harald	Search

(To Go BACK Use BACK Button on Your BROWSER Tool Bar)

Back to || PALM || ASSIGNMENT || OASIS || Home Page

PALM INTRANET

Inventor Name Search

Enter the **first few letters** of the Inventor's Last Name.
Additionally, enter the **first few letters** of the Inventor's First name.

Last Name	**First Name**	
Frey	Bruno	Search

(To Go BACK Use BACK Button on Your BROWSER Tool Bar)

Back to || PALM || ASSIGNMENT || OASIS || Home Page

Trying 3106016892...Open

Welcome to STN International!   Enter x:x
LOGINID:SSSPTA1635LAN
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * *   Welcome to STN International   * * * * * * * * * *

  NEWS 1   Web Page URLs for STN Seminar Schedule - N. America
  NEWS 2   Dec 17 The CA Lexicon available in the CAPLUS and CA files
  NEWS 3   Feb 06 Engineering Information Encompass files have new names
  NEWS 4   Feb 16 TOXLINE no longer being updated
  NEWS 5   Apr 23 Search Derwent WPINDEX by chemical structure
  NEWS 6   Apr 23 PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA
  NEWS 7   May 07 DGENE Reload
  NEWS 8   Jun 20 Published patent applications (A1) are now in USPATFULL
  NEWS 9   JUL 13 New SDI alert frequency now available in Derwent's
                    DWPI and DPCI
  NEWS 10   Aug 23 In-process records and more frequent updates now in
                    MEDLINE
  NEWS 11   Aug 23 PAGE IMAGES FOR 1947-1966 RECORDS IN CAPLUS AND CA
  NEWS 12   Aug 23 Adis Newsletters (ADISNEWS) now available on STN
  NEWS 13   Sep 17 IMSworld Pharmaceutical Company Directory name change
                    to PHARMASEARCH
  NEWS 14   Oct 09 Korean abstracts now included in Derwent World Patents
                    Index
  NEWS 15   Oct 09 Number of Derwent World Patents Index updates increased
  NEWS 16   Oct 15 Calculated properties now in the REGISTRY/ZREGISTRY File
  NEWS 17   Oct 22 Over 1 million reactions added to CASREACT
  NEWS 18   Oct 22 DGENE GETSIM has been improved

  NEWS EXPRESS   August 15 CURRENT WINDOWS VERSION IS V6.0c,
                 CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP),
                 AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001
  NEWS HOURS   STN Operating Hours Plus Help Desk Availability
  NEWS INTER   General Internet Information
  NEWS LOGIN   Welcome Banner and News Items
  NEWS PHONE   Direct Dial and Telecommunication Network Access to STN
  NEWS WWW   CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

  All use of STN is subject to the provisions of the STN Customer
  agreement. Please note that this agreement limits use to scientific
  research. Use for software development or design or implementation
  of commercial gateways or other similar uses is prohibited and may
  result in loss of user privileges and other penalties.

  * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 13:01:13 ON 23 OCT 2001

=> file medline embase caplus scisearch biosis reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL

FILE 'MEDLINE' ENTERED AT 13:01:33 ON 23 OCT 2001

```
=> s DNA adj polymerase
L1            0 DNA ADJ POLYMERASE

=> s polymerase?
L2       712554 POLYMERASE?

=> s DNA?(a)polymerase
L3        91094 DNA?(A) POLYMERASE

=> s DNA?(a)polymerase?
L4        91103 DNA?(A) POLYMERASE?

=> s l4 and B?
TERM 'B?' EXCEEDED TRUNCATION LIMITS - SEARCH ENDED
   1 FILES SEARCHED...

<------User Break------>
u
SEARCH ENDED BY USER
You have entered a truncated stem which occurs in too many terms.
Make the stem longer and try again.  For example, if your original
term was 'degr?' to search for variations and the abbreviation for
'degradation', you could replace it with the expression '(degrdn OR
degrad?)'.  If your search term was numeric, e.g., 'C>5', reduce the
size of the range.

=> s l4 and (b-type)
L5         145 L4 AND (B-TYPE)

=> s l4 and B-type?
L6         145 L4 AND B-TYPE?

=> s l4 and B-?
ADDITIONAL CHARACTERS REQUIRED AFTER '?' FOR LEFT TRUNCATION
ADDITIONAL CHARACTERS REQUIRED AFTER '?' FOR LEFT TRUNCATION
ADDITIONAL CHARACTERS REQUIRED AFTER '?' FOR LEFT TRUNCATION
```

ADDITIONAL CHARACTERS REQUIRED AFTER '?' FOR LEFT TRUNCATION
ADDITIONAL CHARACTERS REQUIRED AFTER '?' FOR LEFT TRUNCATION
ADDITIONAL CHARACTERS REQUIRED AFTER '?' FOR LEFT TRUNCATION
Additional characters must follow the left truncation symbol in your
search term. If your search term contains a punctuation mark before
the truncation symbol and you are searching in a field that uses
implied proximity, the system may interpret the truncation symbol as
being at the beginning of a term. Implied proximity is used in search
fields indexed as single words, for example, the Basic Index. To see
which fields in the current file have left truncation, enter "HELP
SFIELDS" at an arrow prompt (=>).

=> s 16 and exonuclease?
L7   28 L6 AND EXONUCLEASE?

=> s 16 and polymerase?
L8   145 L6 AND POLYMERASE?

=> s 16 and Y-GG?A?
'?' TRUNCATION SYMBOL NOT VALID WITHIN 'GG?A?'
'?' TRUNCATION SYMBOL NOT VALID WITHIN 'GG?A?'
'?' TRUNCATION SYMBOL NOT VALID WITHIN 'GG?A?'
'?' TRUNCATION SYMBOL NOT VALID WITHIN 'GG?A?'
'?' TRUNCATION SYMBOL NOT VALID WITHIN 'GG?A?'
'?' TRUNCATION SYMBOL NOT VALID WITHIN 'GG?A?'
The truncation symbol ? may be used only at the end of a search
term. To specify a variable character within a word use '!', e.g.,
'wom!n' to search for both 'woman' and 'women'. Enter "HELP
TRUNCATION" at an arrow prompt (=>) for more information.

=> s 16 and Y-GG/A?
'A?' IS NOT A VALID FIELD CODE
'A?' IS NOT A VALID FIELD CODE
'A?' IS NOT A VALID FIELD CODE
'A?' IS NOT A VALID FIELD CODE
'A?' IS NOT A VALID FIELD CODE
'A?' IS NOT A VALID FIELD CODE
L9   0 L6 AND Y-GG/A?

=> s 16 and gga?
L10   0 L6 AND GGA?

=> s 16 and y?
   4 FILES SEARCHED...
<------User Break------>
u
SEARCH ENDED BY USER

=> d history

      (FILE 'HOME' ENTERED AT 13:01:13 ON 23 OCT 2001)

      FILE 'MEDLINE, EMBASE, CAPLUS, SCISEARCH, BIOSIS, REGISTRY' ENTERED AT
      13:01:33 ON 23 OCT 2001
L1   0 S DNA ADJ POLYMERASE
L2   712554 S POLYMERASE?
L3   91094 S DNA?(A)POLYMERASE
L4   91103 S DNA?(A)POLYMERASE?
L5   145 S L4 AND (B-TYPE)
L6   145 S L4 AND B-TYPE?

```
L7              28 S L6 AND EXONUCLEASE?
L8             145 S L6 AND POLYMERASE?
L9               0 S L6 AND Y-GG/A?
L10              0 S L6 AND GGA?

=> dup rem 17
DUPLICATE IS NOT AVAILABLE IN 'REGISTRY'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L7
COMMAND INTERRUPTED
If this message appears repeatedly, please notify the Help Desk.
Enter "HELP STN" for information on contacting the nearest STN Help
Desk by telephone or via SEND in the STNMAIL file.

=> dup rem 17
DUPLICATE IS NOT AVAILABLE IN 'REGISTRY'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L7
COMMAND INTERRUPTED
If this message appears repeatedly, please notify the Help Desk.
Enter "HELP STN" for information on contacting the nearest STN Help
Desk by telephone or via SEND in the STNMAIL file.

=> s 17 and PCR
L13             7 L7 AND PCR

=> dup rem 113
DUPLICATE IS NOT AVAILABLE IN 'REGISTRY'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L13
L14             4 DUP REM L13 (3 DUPLICATES REMOVED)

=> d 114 ibib abs 1-
YOU HAVE REQUESTED DATA FROM 4 ANSWERS - CONTINUE? Y/(N):y

L14  ANSWER 1 OF 4   CAPLUS   COPYRIGHT 2001 ACS
ACCESSION NUMBER:        2001:676310  CAPLUS
DOCUMENT NUMBER:        135:237584
TITLE:                  Methods of making mutant B-type
                        DNA polymerases from Thermococcus
                        aggregans with improved performance in PCR
INVENTOR(S):            Sobek, Harald; Frey, Bruno; Antranikian, Garabed;
                        Boehlke, Kristina; Pisani, Francesca Maria; Rossi,
                        Mose
PATENT ASSIGNEE(S):     Roche Diagnostics G.m.b.H., Germany
SOURCE:                 Eur. Pat. Appl., 40 pp.
                        CODEN: EPXXDW
DOCUMENT TYPE:          Patent
LANGUAGE:               English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

       PATENT NO.        KIND  DATE         APPLICATION NO.  DATE
       ---------------   ----  --------     ---------------  --------
       EP 1132474        A1    20010912     EP 2001-1104583  20010306
          R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO
       JP 2001269188     A2    20011002     JP 2001-61781    20010306
PRIORITY APPLN. INFO.:                      EP 2000-105155   A  20000311
AB   The invention provides methods of making mutant B-type
```

DNA polymerase with high performance in PCR.
In particular, the invention discloses that wild type B-
type DNA polymerases have a Y-GG/A amino acid
motif between the N-terminal 3'-5'-exonuclease domain and the
C-terminal polymerase domain whereas the tyrosine of the Y-GG/A amino
acid
motif is mutated and the mutant DNA polymerases are
suitable for PCR and other nucleic acid synthesizing reactions,
and have a better performance. The invention also provides methods of
producing the mutants, vectors and cell lines comprising genes encoding
the mutants.

REFERENCE COUNT: 4
REFERENCE(S):   (1) BOhlke, K; NUCLEIC ACIDS RESEARCH 2000, V28(20),
                                  P3910 MEDLINE
                              (2) Boehringer Mannheim Gmbh; DE 19611759 A 1997
                                  CAPLUS
                              (3) Pisani, F; BIOCHEMISTRY 1998, V37(42), P15005
                                  CAPLUS
                              (4) Truniger, V; EMBO JOURNAL 1996, V15(13), P3430
                                  CAPLUS

L14 ANSWER 2 OF 4   MEDLINE   DUPLICATE 1
ACCESSION NUMBER: 2000478261   MEDLINE
DOCUMENT NUMBER: 20482208   PubMed ID: 11024170
TITLE: PCR performance of the B-type
                     DNA polymerase from the thermophilic
                     euryarchaeon Thermococcus aggregans improved by mutations
                     in the Y-GG/A motif.
AUTHOR: Bohlke K; Pisani F M; Vorgias C E; Frey B; Sobek H; Rossi
                     M; Antranikian G
CORPORATE SOURCE: Institute of Technical Microbiology, Technical University
                     Hamburg-Harburg, Denickestrabetae 15, 21073 Hamburg,
                     Germany.
SOURCE: NUCLEIC ACIDS RESEARCH, (2000 Oct 15) 28 (20) 3910-7.
                     Journal code: O8L; 0411011. ISSN: 1362-4962.
PUB. COUNTRY: ENGLAND: United Kingdom
                     Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200010
ENTRY DATE: Entered STN: 20010322
                     Last Updated on STN: 20010521
                     Entered Medline: 20001031
AB   The effect of mutations in the highly conserved Y-GG/A motif of B
     -type DNA polymerases was studied in the
     DNA polymerase from the hyperthermophilic euryarchaeon
     Thermococcus aggregans. This motif plays a critical role in the balance
     between the synthesis and degradation of the DNA chain. Five different
     mutations of the tyrosine at position 387 (Tyr387-->Phe, Tyr387-->Trp,
     Tyr387-->His, Tyr387-->Asn and Tyr387-->Ser) revealed that an aromatic
     ring system is crucial for the synthetic activity of the enzyme. Amino
     acids at this position lacking the ring system (Ser and Asn) led to a
     significant decrease in polymerase activity and to enhanced
     exonuclease activity, which resulted in improved enzyme fidelity.
     Exchange of tyrosine to phenylalanine, tryptophan or histidine led to
     phenotypes with wild-type-like fidelity but enhanced PCR
     performance that could be related to a higher velocity of polymerisation.
     With the help of a modelled structure of T.aggregans DNA
     polymerase, the biochemical data were interpreted proposing that
     the conformation of the flexible loop containing the Y-GG/A motif is an

important factor for the equilibrium between DNA polymerisation and exonucleolysis.

L14   ANSWER 3 OF 4   CAPLUS   COPYRIGHT 2001 ACS   DUPLICATE 2
ACCESSION NUMBER: 2000:762603 CAPLUS
DOCUMENT NUMBER: 134:322588
TITLE: **PCR** performance of the **B-type DNA polymerase** from the thermophilic euryarchaeon Thermococcus aggregans improved by mutations in the Y-GG/A motif
AUTHOR(S):   Bohike, Kristina; Pisani, Francesca M.; Vorgias, Constantinos E.; Frey, Bruno; Sobek, Harald; Rossi, Mose; Antranikian, Garabed
CORPORATE SOURCE: Institute of Technical Microbiology, Technical University Hamburg-Harburg, Hamburg, 21073, Germany
SOURCE: Nucleic Acids Res. (2000), 28(20), 3910-3917
                          CODEN: NARHAD; ISSN: 0305-1048
PUBLISHER: Oxford University Press
DOCUMENT TYPE: Journal
LANGUAGE: English
AB   The effect of mutations in the highly conserved Y-GG/A motif of **B-type DNA polymerases** was studied in the **DNA polymerase** from the hyperthermophilic euryarchaeon Thermococcus aggregans. This motif plays a crit. role in the balance between the synthesis and degrdn. of the DNA chain. Five different mutations of the tyrosine at position 387 (Tyr387.fwdarw.Phe, Tyr387.fwdarw.Trp, Tyr387.fwdarw.His, Tyr387.fwdarw.Asn and Tyr387.fwdarw.Ser) revealed that an arom. ring system is crucial for the synthetic activity of the enzyme. Amino acids at this position lacking the ring system (Ser and Asn) led to a significant decrease in polymerase activity and to enhanced **exonuclease** activity, which resulted in improved enzyme fidelity. Exchange of tyrosine to phenylalanine, tryptophan or histidine led to phenotypes with wild-type-like fidelity but enhanced **PCR** performance that could be related to a higher velocity of polymn. With the help of a modeled structure of T. aggregans **DNA polymerase,** the biochem. data were interpreted proposing that the conformation of the flexible loop contg. the Y-GG/A motif is an important factor for the equil. between DNA polymn. and exonucleolysis.
REFERENCE COUNT: 37
REFERENCE(S):   (1) Barnes, W; Proc Natl Acad Sci 1994, V91, P2216
                              CAPLUS
                          (2) Bult, C; Science 1996, V273, P1058 CAPLUS
                          (4) Cann, I; J Bacteriol 1999, V181, P5984 CAPLUS
                          (5) Cann, I; Proc Natl Acad Sci 1998, V95, P14250
                              CAPLUS
                          (6) Dong, Q; J Biol Chem 1993, V268, P24163 CAPLUS
                          ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14   ANSWER 4 OF 4   CAPLUS   COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1999:354514 CAPLUS
DOCUMENT NUMBER: 131:154392
TITLE: Molecular cloning, sequence and expression of Aa-polB, a mitochondrial gene encoding a family B **DNA polymerase** from the edible basidiomycete Agrocybe aegerita
AUTHOR(S):   Bois, F.; Barroso, G.; Gonzalez, P.; Labarere, J.
CORPORATE SOURCE: Laboratoire de Genetique Moleculaire et d'Amelioration

AB   An ORF of 1716 nucleotides, putatively encoding a **DNA polymerase**, was characterized in the mitochondrial genome of the edible basidiomycete Agrocybe aegerita. The complete gene, named Aa-polB, and its flanking regions were cloned and sequenced from three overlapping restriction fragments. Aa-polB is located between the SSU rDNA (5' region) and a gene for tRNA Asn (3' region), and is sepd. from these genes by two A +T-rich intergenic regions of 1048 (5' region) and 3864 (3' region) nucleotides, which lack repeated sequences of mitochondrial or plasmid origin. The deduced Aa-POLB protein shows extensive sequence similarity with the family B **DNA polymerases** encoded by genomes that rely on protein-primed replication (invertrons). The domains involved in the 3'.fwdarw.5' **exonuclease** (Exo I to III) and polymerase (Pol I to Pol V) activities were localized on the basis of conserved sequence motifs. The alignment of the Aa-POLB protein (571 amino acids) with sequences of family B **DNA polymerases** from invertrons revealed that in Aa-POLB the N-terminal region preceding Exo I is short, suggesting a close relationship with the **DNA polymerases** of bacteriophages that have linear DNA. The Aa-polB gene was shown to be present in all wild strains examd., which were collected from a wide range of locations in Europe. As shown by RT-**PCR**, the Aa-polB gene is transcribed in the mitochondria, at a low but significant level. The likelihood of the coexistence of Aa-POLB and Pol .gamma. in the A. aegerita mitochondrion is discussed in the light of recent reports showing the conservation of the nucleus-encoded Pol .gamma. from yeast to human.

REFERENCE COUNT:	28
REFERENCE(S):	(1) Altschul, S; J Mol Biol 1990, V215, P403 CAPLUS
	(2) Barroso, G; Appl Environ Microbiol 1995, V61, P1187 CAPLUS
	(3) Blanco, L; Gene 1991, V100, P27 CAPLUS
	(6) Coleman, A; J Protozool 1991, V38, P129 CAPLUS
	(7) Dohmen, G; Curr Genet 1994, V25, P59 CAPLUS
	ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>

---Logging off of STN---

=>
Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS		SINCE FILE	TOTAL
		ENTRY	SESSION
FULL ESTIMATED COST		103.58	103.73

```
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                    ENTRY        SESSION
CA SUBSCRIBER PRICE                                 -1.76         -1.76
```

* *

Dear valued customer,

Your feedback is important to us. Would you kindly take a moment to
complete our survey? This survey will only take about 5-10 minutes to
complete. Your responses will be kept confidential and will help us
improve STN Express with Discover! for your future use. Please click
on the following link to access the survey.

http://www.cas.org/ONLINE/STN/ExpressSurveyForm.html?LOGINID=SSSPTA1635LAN

* *

STN INTERNATIONAL LOGOFF AT 13:09:54 ON 23 OCT 2001